



# IT Labor Market Analysis: Higher Education vs. All Other Industries

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Region: Midwest

*Illinois, Indiana, Iowa, Kansas, Michigan,  
Minnesota, Missouri, Nebraska, North Dakota, Ohio, South  
Dakota, Wisconsin*

IT Forum

## Region in Focus: Midwest

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- The Midwest includes the states of Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.
- Unless stated otherwise, this report analyzes online job postings from July 2021 to June 2022.

### Key Takeaways

- **Remote Work:** Job postings advertising remote work account for 9.51% of postings in the higher education industry compared to 19.08% of postings in all other industries.
- **In-Demand Titles:** The higher education industry more frequently advertises for “System Administrator”, “Specialist”, and “Analyst” positions in all job postings (i.e., “Programmer Analysts,” “IT Specialists,” and “Business Systems Analysts”). Among all other industries, “Engineer” and “Developer” positions account for nine of the top ten titles in all job postings. The most frequently advertised job title is “Systems Administrators” in the higher education industry and “Software Engineers” in all other industries.
- **Technical Support:** The higher education industry more heavily emphasizes technical support roles in job postings compared to all other industries. While employers in the higher education industry request the skills “technical support” and “help desk support” in 14.67% and 10.24% of all postings on average monthly, respectively, employers in all other industries request “these same skills in 7.65% and 4.94% of postings on average monthly, respectively.
- **Skill Specificity:** While programming languages are the most highly demanded skills in both industry groups, all other industries more frequently request specific programming and software tools, such as “Docker,” “React.js,” and “RESTful API.” Employers in the higher education industry request the skills “operating systems” and “information systems” at approximately double the rate of employers in all other industries (16.37% compared to 8.23% on average monthly for “operating systems” and 13.32% compared to 6.29% on average monthly for “information systems”). Additionally, the higher education industry more frequently advertises non-technical IT skills, such as “project management,” “business process”, “workflow management”, and “data management.”
- **Experience Levels:** All other industries generally request slightly greater years of experience in job postings than the higher education industry. In all postings, the median years of experience requested of applicants is five years for all other industries compared to three years for the higher education industry.
- **Education Levels:** The higher education industry more frequently advertises desired education levels in both remote and non-remote job postings compared to all other industries. While the higher education industry lists desired education levels in 86.46% of all postings and 87.91% of remote postings, all other industries list desired education levels in 64.02% of all postings and 60.66% of remote postings.

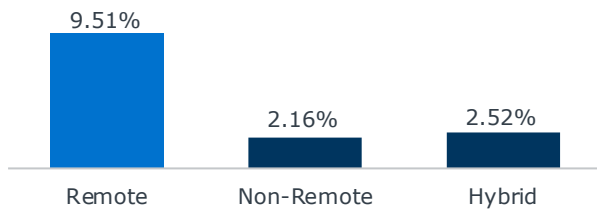


# State of IT Jobs in Higher Education vs. Other Industries

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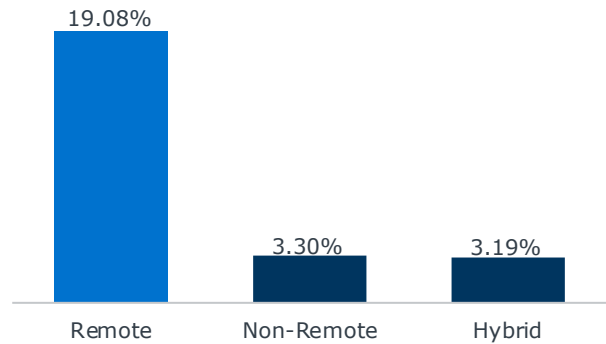
### Percentage of Job Postings Advertised by Remote Status (Higher Education)<sup>1</sup>

n = 12,400 job postings (1,179 remote postings)



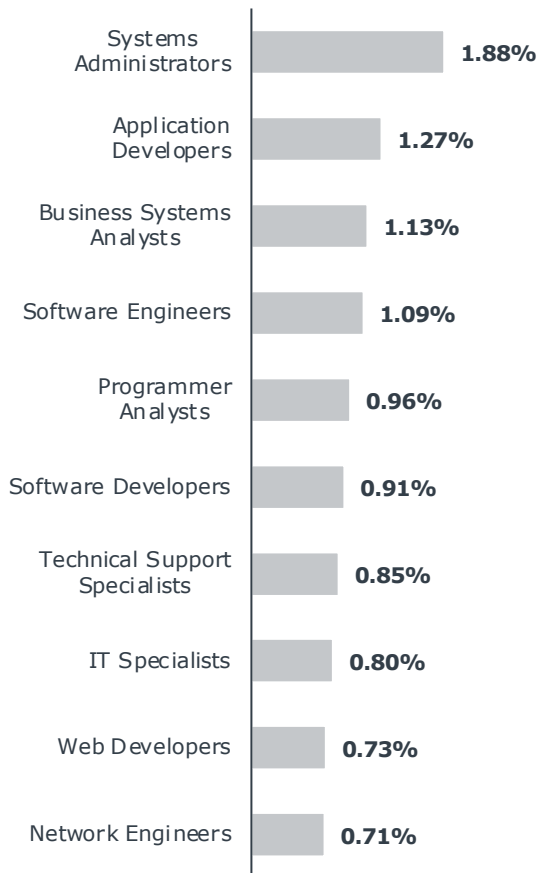
### Percentage of Job Postings Advertised by Remote Status (All Other Industries)<sup>1</sup>

n = 634,512 job postings (121,036 remote postings)



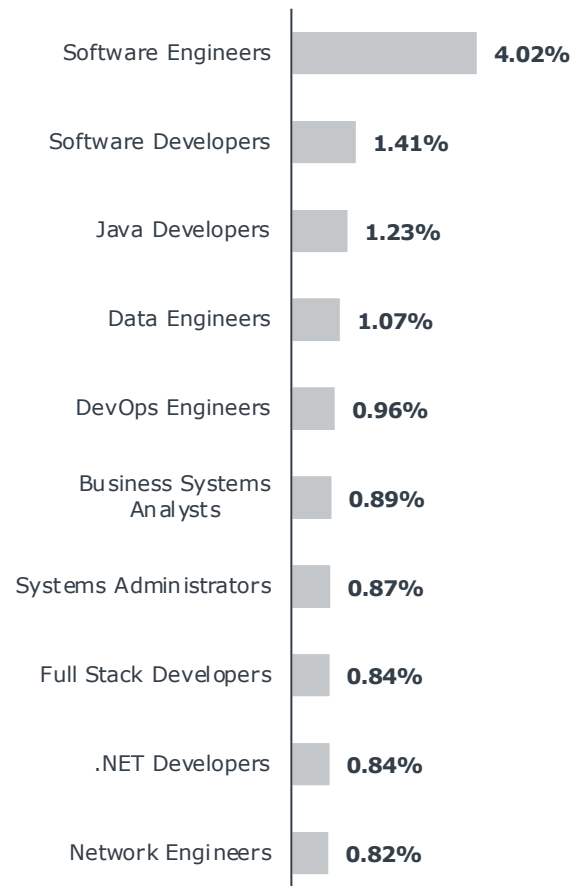
### Most Commonly Advertised Job Titles for IT Professionals (Higher Education)

n = 12,892 job postings<sup>2</sup>



### Most Commonly Advertised Job Titles for IT Professionals (All Other Industries)

n = 677,137 job postings



1) All other job postings are not tagged by remote status.

2) Due to periodic data updates completed by EAB's labor market partner, Emsi Burning Glass, the n-values used throughout the report slightly differ.

Source: Emsi Burning Glass; EAB interviews and analysis.

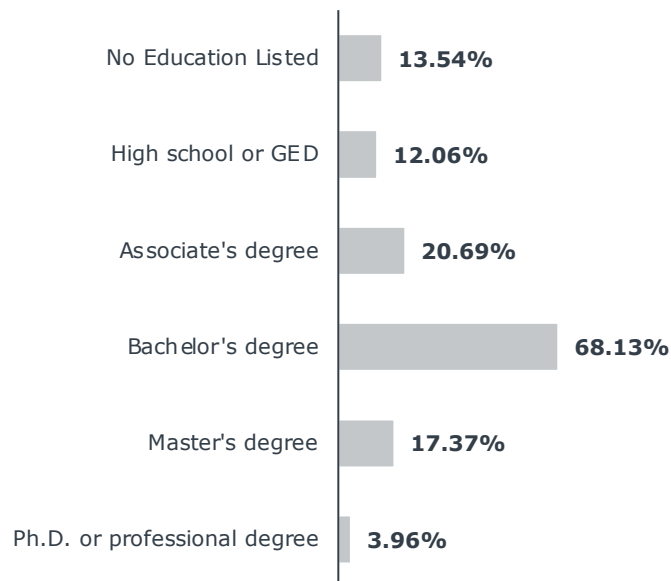
### Median Years of Experience Requested of IT Applicants (Higher Education)

n = 12,400 job postings

## 3 Years

### Education Levels Requested of IT Applicants (Higher Education)

n = 12,892 job postings



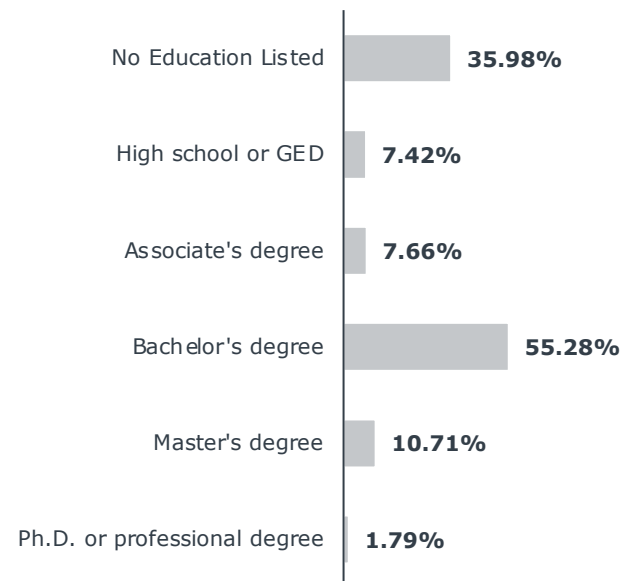
### Median Years of Experience Requested of IT Applicants (All Other Industries)

n = 634,606 job postings

## 5 Years

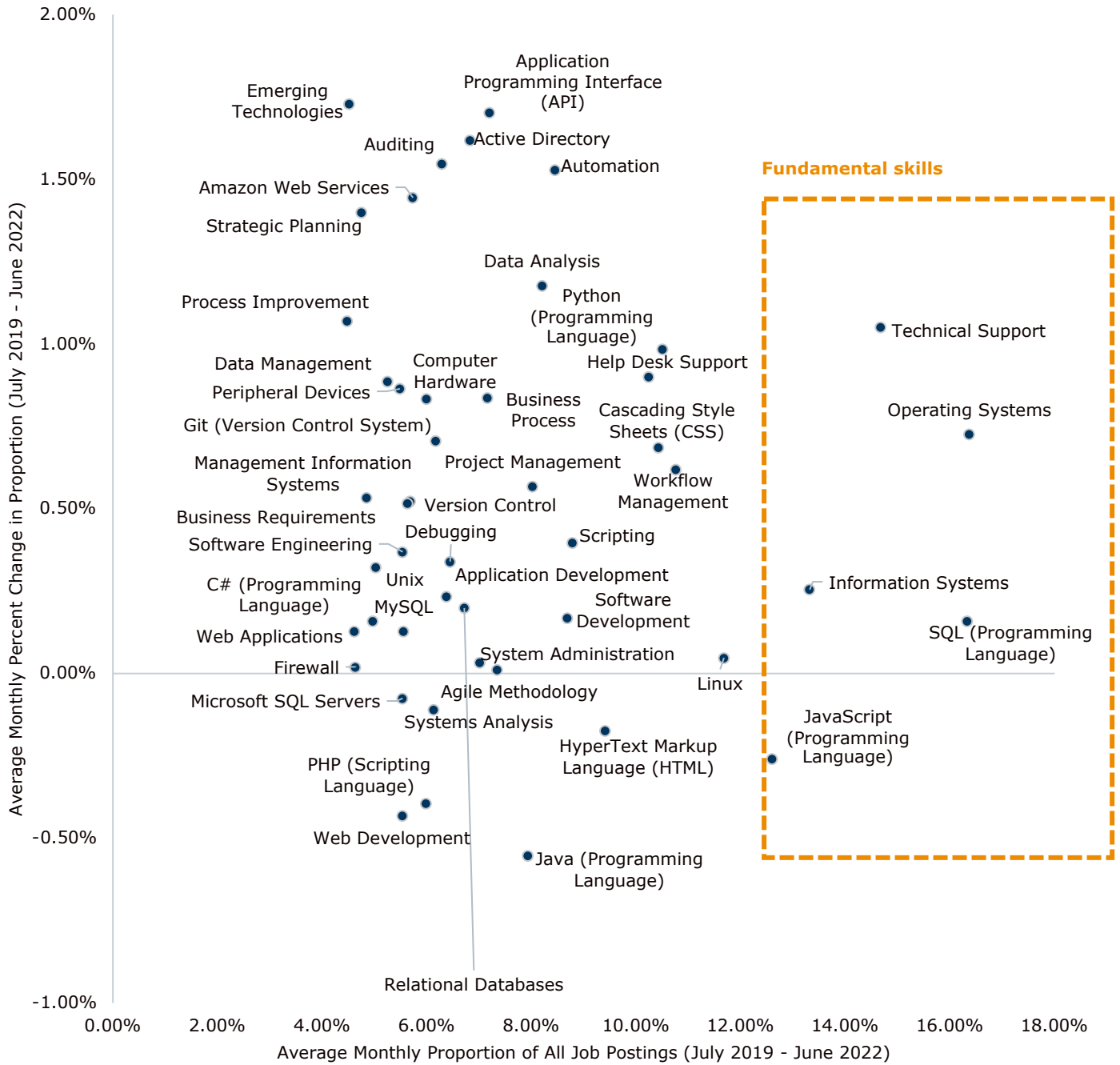
### Education Levels Requested of IT Applicants (All Other Industries)

n = 677,137 job postings



### Top 50 Skills Requested of IT Professionals (Higher Education)

n = 26,493 job postings  
July 2019 – June 2022

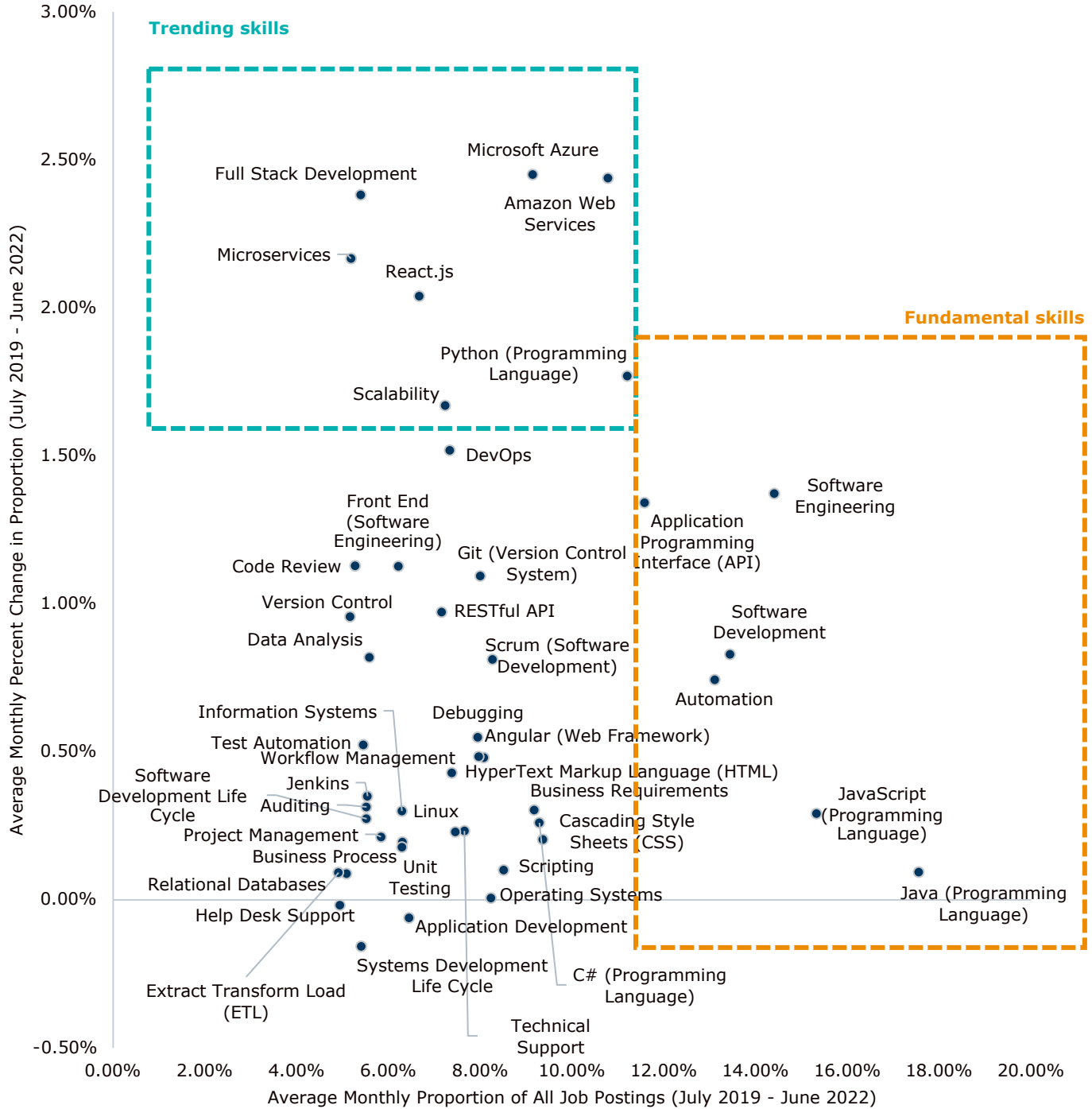


The skills "computer science" (34.13%, 0.12%), "press releases" (4.51%, 2.83%), and "Microsoft Azure" (4.51%, 2.83%) were excluded from the graph to improve readability.

### Top 50 Skills Requested of IT Professionals (All Other Industries)

n = 1,556,377 job postings

July 2019 – June 2022



The skills "computer science" (25.59%, 0.59%), "agile methodology" (21.33%, 0.77%), "SQL (programming language)" (20.88%, 0.08%), "Docker" (4.86%, 2.81%), and "web services" (7.02%, -0.64%) were excluded from the graph to improve readability.



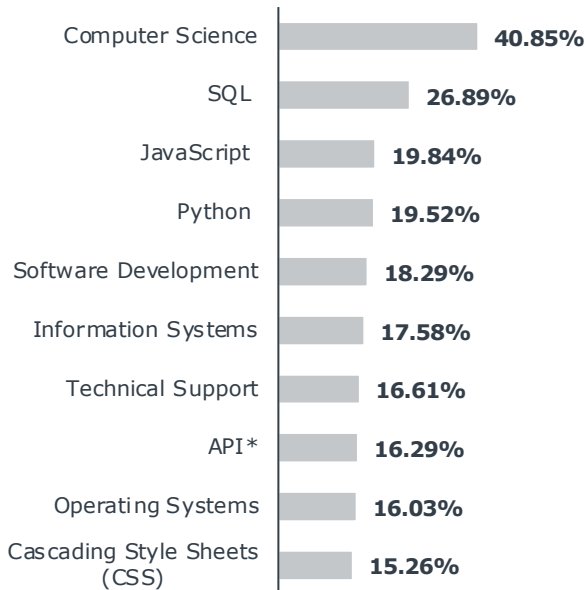
# Comparison of Remote Work in Higher Education vs. Other Industries

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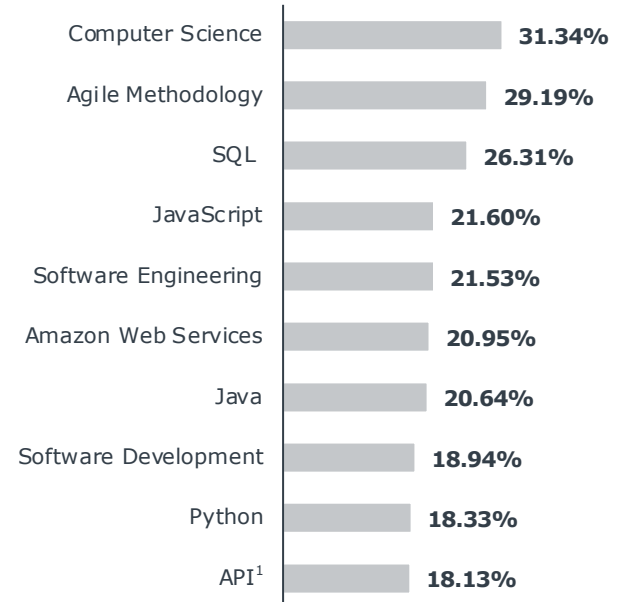
### Most Commonly Requested Skills of Remote IT Applicants (Higher Education)

n = 1,547 job postings



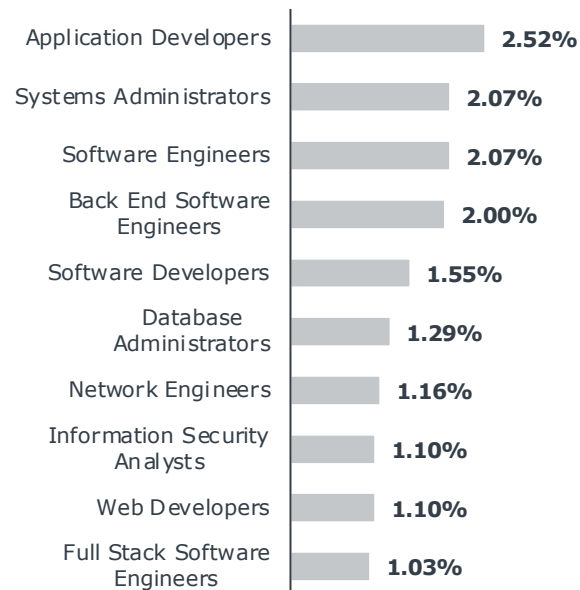
### Most Commonly Requested Skills of Remote IT Applicants (All Other Industries)

n = 163,314 job postings



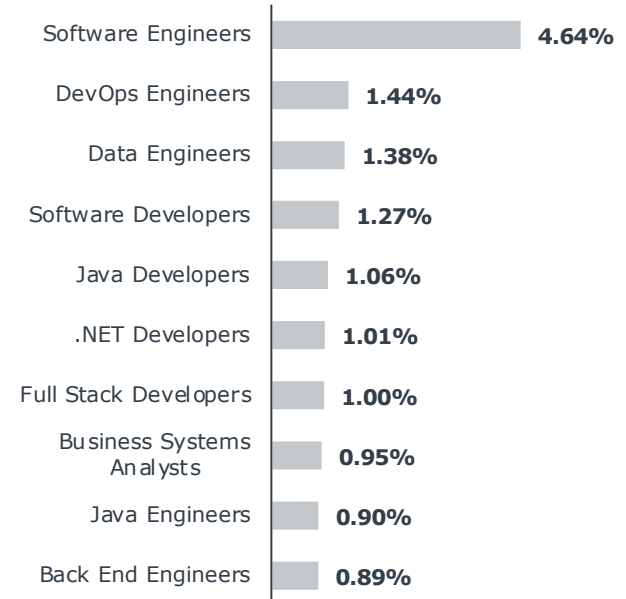
### Most Commonly Advertised Job Titles for Remote IT Applicants (Higher Education)

n = 1,547 job postings



### Most Commonly Advertised Job Titles for Remote IT Applicants (All Other Industries)

n = 163,314 job postings



1) Application programming interface.

Source: Emsi Burning Glass; EAB interviews and analysis.

### Median Years of Experience Requested of Remote IT Applicants (Higher Education)

n = 1,179 job postings

# 3 Years

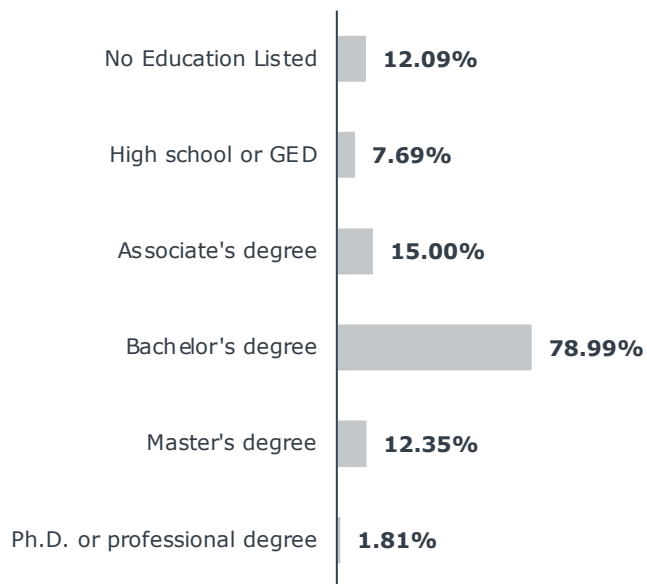
### Median Years of Experience Requested of Remote IT Applicants (All Other Industries)

n = 121,039 job postings

# 5 Years

### Education Levels Requested of Remote IT Applicants (Higher Education)

n = 1,547 job postings



### Education Levels Requested of Remote IT Applicants (All Other Industries)

n = 163,314 job postings

